Refine Search

Your wildcard search against 10000 terms has yielded the results below.

Your result set for the last L# is incomplete.

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

Search Results -

Documents

		101113		ocuments	
		L1 and (xml sam	e tag\$)	1	
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		t Publication Full-Te	ext Databas	se	
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<u>L5</u>	L1 and (xml same tag\$)	1	<u>L5</u>
<u>L4</u>	L1 and xml	3	<u>L4</u>
<u>L3</u>	L1 and (meta\$ same (pars\$ or contract\$))	2	<u>L3</u>
<u>L2</u>	L1 and contract\$	3	<u>L2</u>
L1	6640145.pn. or 6591272.pn. or 5970490.pn.	. 3	L1

**END OF SEARCH HISTORY** 

First Hit Fwd Refs
End of Result Set

Previous Doc

Next Doc

Go to Doc#

r

Generate Collection

Print

L5: Entry 1 of 1

File: USPT

Oct 19, 1999

DOCUMENT-IDENTIFIER: US 5970490 A

TITLE: Integration platform for heterogeneous databases

Detailed Description Text (459):

This MetaFrame indicates that an ORDER consists of an ID, the last and first names of the Person to whom the order is sold, the Date sold, and a list of multiple ITEMS—each of which has a PRICE and is either a Book, a Record, or Coffee—alternation ".vertline." on the right hand side of a substructure expression means exclusive "OR". The ID is a named attribute inside a XML tag.

Previous Doc

Next Doc

Go to Doc#

Interrupt

## Refine Search

Your wildcard search against 10000 terms has yielded the results below.

## Your result set for the last L# is incomplete.

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

Search Results -

Terms	Documents
ad ((distribut\$ or get\$ or receiv\$) with (rule or cond	dition)) 2
US Pre-Grant Publication Full-Text Database	
US Patents Full-Text Database	
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IBM Technical Disclosure Bulletins	
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L1 and contract	
	Refine Search
	US Pre-Grant Publication Full-Text Database US Patents Full-Text Database US OCR Full-Text Database EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index

### **Search History**

Clear

DATE: Saturday, September 11, 2004 Printable Copy Create Case

Recall Text

Set Name side by side	Set Name Query				
•	SPT; THES=ASSIGNEE; PLUR=YES; OP=OR		result set		
<u>L10</u>	L1 and ((distribut\$ or get\$ or receiv\$) with (rule or condition))	2	<u>L10</u>		
<u>L9</u>	L1 and (receiv\$ same (rule or condition))	1	<u>L9</u>		
<u>L8</u>	L1 and (receiv\$ with (rule or condition))	1	<u>L8</u>		
<u>L7</u>	L1 and (login\$ or register\$)	3	<u>L7</u>		
<u>L6</u>	L1 and (log\$ or register\$)	3	<u>L6</u>		
<u>L5</u>	L1 and pars\$	2	<u>L5</u>		
<u>L4</u>	L1 and tag\$	3	<u>L4</u>		
<u>L3</u>	L2 and xml	3	<u>L3</u>		
<u>L2</u>	6640145.pn. or 6591272.pn. or 5970490.pn.	3	<u>L2</u>		
<u>L1</u>	6640145.pn. or 6591272.pn. or 5970490.pn.	3	<u>L1</u>		

#### **END OF SEARCH HISTORY**

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## Indige InstantNotifier™

The Indigo InstantNotifierTM solution was designed to meet the needs of an eclectic breed of customers ranging from enterprises to content providers. It answers the critical issues of mobility and device independence faced by today's workforce as well as those of the everyday consumer. The InstantNotifier is presence-enabled, whereby inconstant yet critical information such as recipient availability is collected and maintained by presence-capable applications and can be used to facilitate the instant delivery of crucial data ranging from security alerts to stock quotes to job opportunities, onto to the device currently in use by the recipient.

Consequently, the Indigo InstantNotifierTM solution allows enterprises or content providers to deal with their staff or customers' mobility without interrupting critical information delivery. By providing intelligent content routing, the solution eliminates multiple and possibly useless deliveries of volatile information, significantly reducing cost of transport while alleviating recipients' stress of remaining anchored to a particular device.



Related products:
Indigo
Presence
Server & SDK

More info:
Product
Information
Form

Previous Doc

Next Doc

Go to Doc#

Generate Collection

Print

L1: Entry 1 of 3

File: USPT

Oct 28, 2003

US-PAT-NO: 6640145

DOCUMENT-IDENTIFIER: US 6640145 B2

TITLE: Media recording device with packet data interface

DATE-ISSUED: October 28, 2003

INVENTOR-INFORMATION:

NAME CITY

STATE ZIP CODE COUNTRY

Hoffberg; Steven Hoffberg-Borghesani; Linda West Harrison Acton NY 10604

Clear

MA

01720

APPL-NO: 10/ 162079 [PALM]
DATE FILED: June 3, 2002

#### PARENT-CASE:

The present application is a continuation of U.S. patent application Ser. No. 09/241,135, filed Feb. 1, 1999, now issued as U.S. Pat. No. 6,400,996, issued Jun. 4, 2002.

INT-CL: [07] G05 B 15/00

US-CL-ISSUED: 700/83; 700/17, 700/23, 700/19, 709/200, 709/201, 709/202, 704/200,

704/201, 704/7

US-CL-CURRENT: 700/83; 700/17, 700/19, 700/23, 704/200, 704/201, 704/7, 709/200, 709/201, 709/202

<u>709/201</u>, <u>709/202</u>

FIELD-OF-SEARCH: 700/17, 700/18, 700/19, 700/23-25, 700/83, 700/86-87, 370/218, 370/219, 370/220, 370/355, 370/356, 704/378, 704/100-102, 704/200-201, 704/227, 704/223, 704/224, 345/157, 345/810, 345/835, 345/840, 345/841, 345/741, 709/200, 709/201, 709/202

PRIOR-ART-DISCLOSED:

#### U.S. PATENT DOCUMENTS

Search ALL

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
	3609684	September 1971	Lipp	340/146.3C
	3849760	November 1974	Endou et al.	340/146.3н
	3928719	December 1975	Sasabe et al.	178/6.8
П	3967241	June 1976	Kawa	340/146.3H

Search Selected

3993976	November 1976	Ginsburg	340/146.3P
4025851	May 1977	Haselwood et al.	325/31
<u>4100370</u>	July 1978	Suzuki et al.	179/1SB
4117511	September 1978	Baer et al.	358/83
4118730	October 1978	Lemelson	358/93
4148061	April 1979	Lemelson	358/101
<u>4203076</u>	May 1980	Yamashita	331/25
4208652	June 1980	Marshall	340/146.3Y
4213183	July 1980	Barron et al.	364/507
4225850	September 1980	Chang et al.	340/146.3E
4228421	October 1980	Asada	340/146.3MA
4230990	October 1980	Lert, Jr. et al.	455/67
4244043	January 1981	Fujita et al.	368/85 '
4245245	January 1981	Matsumoto et al.	358/122
4264924	April 1981	Freeman	358/86
<u>4264925</u>	April 1981	Freeman et al.	358/86
4298889	November 1981	Burianek et al.	358/148
<u>4305131</u>	December 1981	Best	364/521
4331974	May 1982	Cogswell et al.	358/86
<u>4337529</u>	June 1982	Morokawa	368/10
4338626	July 1982	Lemelson	358/93
4346407	August 1982	Baer et al.	358/149
4390904	June 1983	Johnston et al.	358/335
4395780	July 1983	Gohm et al.	455/607
4417246	November 1983	Agnor et al.	340/825.44
4420769	December 1983	Novak	358/139
4439788	March 1984	Frame	358/213
<u>4450531</u>	May 1984	Kenyon et al.	364/604
4451825	May 1984	Hall et al.	340/750
4476584	October 1984	Dages	455/182
4486832	December 1984	Haubner et al.	364/200
4499601	February 1985	Matthews	455/166
4506301	March 1985	Kingsley et al.	358/280
4511918	April 1985	Lemelson	358/107
4519086	May 1985	Hull et al.	375/120
4535453	August 1985	Rhodes et al.	370/110.1
4546382	October 1985	McKenna et al.	358/84
4546387	October 1985	Glaab	358/186

<u>4547899</u>	October 1985	Nally et al.	382/7
<u>4558464</u>	December 1985	O'Brien, Jr.	455/4
4573072	February 1986	Freeman	358/8
<u>4575755</u>	March 1986	Schoeneberger et al.	358/120
<u>4581762</u>	April 1986	Lapidus et al.	382/22
4593367	June 1986	Slack et al.	364/513
4602279	July 1986	Freeman	358/86
4603349	July 1986	Robbins	358/86
4621285	November 1986	Schilling et al.	358/120
4646250	February 1987	Childress	364/518
<u>4653109</u>	March 1987	Lemelson et al.	382/34
4658370	April 1987	Erman et al.	395/76
4658429	April 1987	Orita et al.	382/36
4672683	June 1987	Matsueda	382/57
4677466	June 1987	Lert, Jr. et al.	358/84
4679137	July 1987	Lane et al.	
4682365	July 1987	Orita et al.	382/14
4695975	September 1987	Bedrij	395/147
4697209	September 1987	Kiewit et al.	358/84
4706121	November 1987	Young	358/142
4716404	December 1987	Tabata et al.	340/723
<u>4739398</u>	April 1988	Thomas et al.	358/84
4745549	May 1988	Hashimoto	364/402
<u>4747148</u>	May 1988	Watanabe et al.	382/10
<u>4752890</u>	June 1988	Natarajan et al.	364/513
<u>4760604</u>	July 1988	Cooper et al.	382/15
4764973	August 1988	O'Hair	382/14
<u>4769697</u>	September 1988	Gilley et al.	358/84
<u>4771467</u>	September 1988	Catros et al.	382/6
4773024	September 1988	Faggin et al.	395/20
<u>4774677</u>	September 1988	Buckley	364/513
4775935	October 1988	Yourick	364/401
4780759	October 1988	Matsushima et al.	358/148
4783741	November 1988	Mitterauer	364/413.01
4783752	November 1988	Kaplan et al.	395/64
4783754	November 1988	Bauck et al.	364/513.5
4783829	November 1988	Miyakawa et al.	382/22

	4789933	December 1988	Chen et al.	364/413.13
	4799270	January 1989	Kim et al.	382/27
	4802103	January 1989	Faggin et al.	395/24
	4802230	January 1989	Horowitz	382/22
	4803736	February 1989	Grossberg et al.	382/22
	4805224	February 1989	Koezuka et al.	382/8
	4805225	February 1989	Clark	382/15
□.	<u>4809331</u>	February 1989	Holmes	381/41
□.	<u>4817171</u>	March 1989	Stentiford	382/19
	4817176	March 1989	Marshall et al.	382/43
	4829453	May 1989	Katsuta et al.	364/521
	4831659	May 1989	Miyaoka et al.	382/56
	<u>4837842</u>	June 1989	Holt	382/26
	4841575	June 1989	Welsh et al.	381/36
	<u>4843562</u>	June 1989	Kenyon et al.	364/487
	4843631	June 1989	Steinpichler et al.	382/43
	4845610	July 1989	Parvin	364/200
	4847698	July 1989	Freeman	358/343
	4847699	July 1989	Freeman	358/343
	4847700	July 1989	Freeman	358/343
	<u>4862015</u>	August 1989 .	Grandfield	730/270
	4876731	October 1989	Loris et al.	382/40
	<u>4878179</u>	October 1989	Larsen et al.	364/490
	4881270	November 1989	Knecht et al.	382/17
	4884217	November 1989	Skeirik et al.	395/66
	4887304	· December 1989	Terzian	382/30
	4888814	December 1989	Yamaguchi et al.	382/21
	4891762	January 1990	Chotiros	364/456
	4893346	January 1990	Bishop	382/8
	4894734	January 1990	Fischler et al.	360/51
	4902986	February 1990	Lesmeister	331/25
	4905162	February 1990	Hartzband et al.	364/513
	4905163	February 1990	Garber et al.	364/513
	4905286	February 1990	Sedgwick et al.	381/43
	4906940	March 1990	Greene et al.	382/16
	4908713	March 1990	Levine	358/335
	4908758	March 1990	Sanders	364/300

4912433	March 1990	Motegi et al.	331/8
<u>4912648</u>	March 1990	Tyler	364/513
4914708	April 1990	Carpenter et al.	382/14
4918516	April 1990	Freeman	358/86
4920499	April 1990	Skeirik	395/12
<u>4930160</u>	May 1990	Vogel	380/23
4931926	June 1990	Tanaka et al.	364/419
4931985	June 1990	Glaise et al.	364/900
4941193	July 1990	Barnsley et al.	382/56
4944023	July 1990	Imao et al.	382/37
4949187	August 1990	Cohen ·	358/335
4954824	September 1990	Yamada et al.	341/61
<u>4956870</u>	September 1990	Hara	382/30
4958220	September 1990	Alessi et al.	358/76
<u>4958375</u>	September 1990	Reilly et al.	382/14
4963994	October 1990	Levine	358/335
<u>4964077</u>	October 1990	Eisen et al.	364/900
4965725	October 1990	Rutenberg	364/413.1
4967273	October 1990	Greenberg	358/142
4972499	November 1990	Kurosawa	382/38
<u>4977455</u>	December 1990	Young	358/142
4979222	December 1990	Weber	382/6 .
<u>4982344</u>	January 1991	Jordan	364/521
4984255	January 1991	Davis et al.	375/106
<u>4987604</u>	January 1991	Rouch	382/8
<u>4989256</u>	January 1991	Buckley	382/15
<u>4989258</u>	January 1991	Takahashi et al.	382/37
<u>4992940</u>	February 1991	Dworkin	364/401
<u>4992972</u>	February 1991	Brooks et al.	364/900
4995078	February 1991	Monslow et al.	380/10
<u>4998286</u>	March 1991	Tsujiuchi et al.	382/34
5012334	April 1991	Etra	358/102
5014219	May 1991	White	364/513
5014327	May 1991	Potter et al.	382/14
5018169	May 1991	Wong et al.	375/119
5018218	May 1991	Peregrim et al.	382/22
5018219	May 1991	Matsuzaki et al.	382/37

	5019899	May 1991	Boles et al.	358/84
	5020112	May 1991	Chou	382/37
	5020113	May 1991	Lo et al.	382/42
	5021976	June 1991	Wexelblat et al.	364/521
	5022062	June 1991	Annis	378/86
	5025310	June 1991	Sekiya et al.	358/19
	5027400	June 1991	Baji et al.	380/20
	5028888	July 1991	Ray	331/57
	5031224	July 1991	Mengel et al.	382/10
	5031228	July 1991	Lu	382/38
	5033101	July 1991	Sood	382/30
	5034991	July 1991	Hagimae et al.	382/30
	5038379	August 1991	Sano	382/1
	5038390	August 1991	Chandran	382/56
	5040134	August 1991	Park	364/602
	5041967	August 1991	Ephrath et al.	
	5043881	August 1991	Hamazaki	
	5046113	September 1991	Hoki	382/8
	5047867	September 1991	Strubbe et al.	358/335
	5048095	September 1991	Bhanu et al.	382/9
	5048100	September 1991	Kuperstein	382/36
	5051817	September 1991	Takano	358/22
	5051998	September 1991	Murai et al.	371/39.1
	5052045	September 1991	Peregrim et al.	382/30
	5054101	October 1991	Prakash	382/50
	5058183	October 1991	Schmidt et al.	382/30
	5058184	October 1991	Fukushima	382/37
	5060277	October 1991	Bokser	382/14
	5060278	October 1991	Fukumizu	382/14
	5063601	November 1991	Hayduk	382/14
	5063602	November 1991	Peppers et al.	382/32
	5063603	November 1991	Burt	382/37
	5065440	November 1991	Yoshida et al.	382/30
	5065447	November 1991	Barnsley et al.	382/56
	5067160	November 1991	Omata et al.	382/1
	5067161	November 1991	Mikami et al.	382/1
	5067162	November 1991	Driscoll, Jr. et al.	382/5

5067164	November 1991	Denker et al.	382/15
5067166	November 1991	Ito	382/37
5068664	November 1991	Appriou et al.	342/90
5068723	November 1991	Dixit et al.	358/133
5068724	November 1991	Krause et al.	358/133
5068744	November 1991	Ito	358/310
5075771	December 1991	Hashimoto	358/84
<u>5076662</u>	December 1991	Shih et al.	359/36
<u>5086385</u>	February 1992	Launey et al.	700/83
<u>5089978</u>	February 1992	Lipner et al.	364/551.01
5099422	March 1992	Foresman et al.	364/401
5103498	April 1992	Lanier et al.	395/68
<u>5109431</u>	April 1992	Nishiya et al.	382/30
5111516	May 1992	Nakano et al.	382/14
<u>5115501</u>	May 1992	Kerr	395/600
5119475	June 1992	Smith et al.	395/156
<u>5119507</u>	June 1992	Mankovitz	455/154.1
5122886	June 1992	Tanaka	358/335
5123046	June 1992	Levine	380/10
5123057	June 1992	Verly et al.	382/37
<u>5123087</u>	June 1992	Newell et al.	395/155
5124908	June 1992	Broadbent	364/188
<u>5128525</u>	July 1992	Stearns et al.	235/454
5130792	July 1992	Tindell et al.	358/85
<u>5132992</u>	July 1992	Yurt et al.	375/122
5133021	July 1992	Carpenter et al.	382/15
5133079	July 1992	Ballantyne et al.	455/4.1
<u>5134719</u>	July 1992	Mankovitz	455/154.1
<u>5136659</u>	August 1992	Kaneko et al.	382/16
<u>5136696</u>	August 1992	Beckwith et al.	395/375
<u>5148497</u>	September 1992	Pentland et al.	382/54
5148522	September 1992	Okazaki	395/161
5151789	September 1992	Young	358/194.1
5155591	October 1992	Wachob	358/86
5159474	October 1992	Franke et al.	359/29
5161204	November 1992	Hutcheson et al.	382/16
<u>5168529</u>	December 1992	Peregrim et al.	382/48

5170466	December 1992	Rogan et al.	
5173949	December 1992	Peregrim et al.	382/48
5177796	January 1993	Feig et al.	382/56
5179652	January 1993	Rozmanith et al.	395/155
5187788	February 1993	Marmelstein	
5187797	February 1993	Nielsen et al.	395/800
5189630	February 1993	Barstow et al.	364/514
<u>5192999</u>	March 1993	Graczyk et al.	358/85
5200822	April 1993	Bronfin et al.	358/142
5202828	April 1993	Vertelney et al.	364/419
<u>5214504</u>	May 1993	Toriu et al.	358/105
5220420	June 1993	Hoarty et al.	358/86
5220640	June 1993	Frank	395/2
5220648	June 1993	Sato	395/146
5220674	June 1993	Morgan et al.	
<u>5222155</u>	June 1993	Delanoy et al.	382/30
5223924	June 1993	Strubbe	358/86
<u>5231494</u>	July 1993	Wachob	358/146
RE34340	August 1993	Freeman	358/86
5239617	August 1993	Gardner et al.	395/12
<u>5241620</u>	August 1993	Ruggiero	395/22
<u>5241645</u>	August 1993	Cimral et al.	395/500
<u>5247347</u>	September 1993	Litteral et al.	358/85
<u>5247433</u>	September 1993	Kitaura et al.	364/188
5247651	September 1993	Clarisse	395/500
<u>5253061</u>	October 1993	Takahama et al.	358/160
5255386	October 1993	Prager	395/600
5259038	November 1993	Sakou et al.	382/14
5261081	November 1993	White et al.	395/550
<u>5263167</u>	November 1993	Conner, Jr. et al.	395/700
5263174	November 1993	Layman	395/800
5274714	December 1993	Hutcheson et al.	382/15
<u>5276737</u>	January 1994	Micali	380/30
<u>5280530</u>	January 1994	Trew et al.	382/1
5283641	February 1994	Lemelson	348/92
5283819	February 1994	Glick et al.	379/90
5291068	March 1994	Rammel et al.	307/116

	5297204	March 1994	Levine	380/10
	5297249	March 1994	Bernstein et al.	395/156
	5298674	March 1994	Yun	84/616
	5303313	April 1994	Mark et al.	382/56
	5305197	April 1994	Axler et al.	364/401
	5307421	April 1994	Darboux et al.	382/8
	5317647	May 1994	Pagallo	382/14
	<u>5317677</u>	May 1994	Dolan et al.	395/77
	<u>5329611</u>	July 1994	Pechanek et al.	395/27
	5343251	August 1994	Nafeh	348/571
	5347600	September 1994	Barnsley et al.	382/56
	5347632	September 1994	Filepp et al.	395/200
	5349670	September 1994	Agrawal et al.	395/775
	5351078	September 1994	Lemelson	348/135
	5357276	October 1994	Banker et al.	348/7
	5365282	November 1994	Levine	348/734
	5373330	December 1994	Levine	348/734
$\square$	<u>5381158</u>	January 1995	Takahara et al.	345/156
	5384867	January 1995	Barnsley et al.	382/56
	5388198	February 1995	Layman et al.	395/155
	5390125	February 1995	Sennott et al.	364/449
	5390281	February 1995	Luciw et al.	395/12
	<u>5396546</u>	March 1995	Remillard	379/96
	5401946	March 1995	Weinblatt	235/381
	5410343	April 1995	Coddington et al.	348/7
	5410344	April 1995	Graves et al.	348/1
	5410643	April 1995	Yomdin et al.	395/120
	5412773	May 1995	Carlucci et al.	395/156
	<u>5414756</u>	May 1995	Levine	379/67
	5420647	May 1995	Levine	348/734
	<u>5420975</u>	May 1995	Blades et al.	395/156
	5421008	May 1995	Banning et al.	395/600
	5425100	June 1995	Thomas et al.	380/20
	5425890	June 1995	Yudin et al.	252/67
	5428727	June 1995	Kurosu et al.	395/147
	5430552	July 1995	O'Callaghan	358/335
	5430812	July 1995	Barnsley et al.	382/235

<u>5434966</u>	July 1995	Nakazawa et al.	395/161
<u>5436653</u>	July 1995	Ellis et al.	348/2
<u>5440400</u>	August 1995	Micheron et al.	358/335
5444499	August 1995	Saitoh	348/734
5446891	August 1995	Kaplan et al.	395/600
5446919	August 1995	Wilkins	455/6.2
5450490	September 1995	Jensen et al.	380/6
5455892	October 1995	Minot et al.	395/23
5459517	October 1995	Kunitake et al.	348/416
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<u>H1506</u>	December 1995	Beretta	345/199
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Ando et al., US 2003/0059208 Al, Mar. 27, 2003, Digital Video Recording System and its Recording Medium.

ART-UNIT: 2121

PRIMARY-EXAMINER: Patel; Ramesh

ATTY-AGENT-FIRM: Milde & Hoffberg LLP

#### ABSTRACT:

An intelligent media device, comprising a packet data communications interface; a media communication interface for receiving audio and/or video data; a digital memory for persistently storing received audio and/or video data; and an intelligent server for generating a virtual interface for controlling the media communication interface and the digital memory through said packet data communications interface. The intelligent server may be adaptive. A variety of devices may be interfaced through the packet data communications interface, including telephony, imaging, videoconferencing, security, alarm, environmental control, vehicular, illumination system, domestic appliance; fluid and handling systems, as well as consumer electronic devices. A digital rights manager for enforcing a set of externally supplied restrictions associated with the received audio and/or video data may be incorporated, with a cryptographic processor for selectively cryptoprocessing audio and/or video data in dependence on said rights manager being provided to limit access to the audio and/or video data content.

23 Claims, 32 Drawing figures

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L2: Entry 3 of 3

File: USPT

Oct 19, 1999

US-PAT-NO: 5970490

DOCUMENT-IDENTIFIER: US 5970490 A

TITLE: Integration platform for heterogeneous databases

DATE-ISSUED: October 19, 1999

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Morgenstern; Matthew

Ithaca

NY

ASSIGNEE-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

TYPE CODE

Xerox Corporation

Stamford CT

02

APPL-NO: 08/ 963853 [PALM] DATE FILED: November 4, 1997

#### PARENT-CASE:

This application claims priority of Provisional U.S Pat. Application No. 60/030,215, filed Nov. 5, 1996 the subject matter of this application is fully incorporated herein.

INT-CL:  $[06] \underline{G06} \underline{F} \underline{17/30}$ 

US-CL-ISSUED: 707/10; 707/103, 707/104

US-CL-CURRENT: 707/10; 707/104.1

FIELD-OF-SEARCH: 707/10, 707/103, 707/104

PRIOR-ART-DISCLOSED:

#### U.S. PATENT DOCUMENTS

Search Selected | Search ALL | Clear

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5758351	May 1998	Gibson et al.	707/104
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http://www.sei.cmu.edu/activities/str/descriptions/corba.sub.- body.html, Jan. 10, 1997.

Object Request Broker, http://www.sei.cmu.edu/activities/str/descriptions/orb.sub.body.html. Jun. 25, 1997.

ART-UNIT: 277

PRIMARY-EXAMINER: Amsbury; Wayne

ASSISTANT-EXAMINER: Alam; Shahid

ATTY-AGENT-FIRM: Cox; Diana M.

#### ABSTRACT:

A method for processing heterogeneous data including high level specifications to drive program generation of information mediators, inclusion of structured file formats (also referred to as data interface languages) in a uniform manner with heterogeneous database schema, development of a uniform data description language across a wide range of data schemas and structured formats, and use of annotations to separate out from such specifications the heterogeneity and differences that heretofore have led to costly special purpose interfaces with emphasis on selfdescription of information mediators and other software modules.

18 Claims, 5 Drawing figures

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L3: Entry 2 of 3

File: USPT

Jul 8, 2003

DOCUMENT-IDENTIFIER: US 6591272 B1

TITLE: Method and apparatus to make and transmit objects from a database on a server computer to a client computer

#### Detailed Description Text (6):

Skeleton code templates 22, generalized versions of the final objects to be produced, are also supplied to the software 21. Code 26(a-z) for the class of the particular objects desired by the user, e.g. Java/C++, XML, sed or shell scripts, IDL etc. is then generated. The code 26 is used to implement the standardized view of the table 24.

#### Detailed Description Text (16):

This document provides, for reference purposes, a detailed definition of the OBJECTSERVERFACTORY product (OSF) and the PRO-OBJECTS, support classes, XML, and scripts generated by OSF.

#### Detailed Description Text (198):

As an example of this language-independent code generation capability of OSF, observe in the Template Use Summary table above, UNIX sedlanguage translation files are generated to apply a single foreign language translation to multiple resource bundle class files..Also, several sets of HTML files are also created from templates as well for use in ultra-thin clients. For EJBs, XML deployment descriptors and are also generated.

#### Detailed Description Text (421):

It is very important to get these names correct, as they will be used in literally dozens of places: in the IDL, build scripts, XML files, server and client software. As a result, OSF has sophisticated algorithms to convert table names to base object names and to create attribute names from column names. However, the algorithms require quick review by the system designer to ensure that they are absolutely correct. Consider FIG. 14 in the drawings section.

#### Detailed Description Text (458):

This is the directory where the various .java, .html, .cpp, .xml, .sed, .cmd, .sh, and other input templates are to be found. See the templates directory on the CD-ROM filed herewith.

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DOCUMENT-IDENTIFIER: US 6591272 B1

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#### Detailed Description Paragraph Table (80):

public void appenAttribute (String_attribute) { // if a delimiter is encountered, add an ajacent delimiter which // will be removed by the ORB Stream parser on the receiving end // null checks first if ( attribute == null) { append (NULLATTRIBUTE) ; return; } if (_attribute.length ( ) == 0) { append (NULLATTRIBUTE) ; return; } // scan for delims, if found replace delimiter attribute.replace (STREAMDELIMITER, DELIMITERINSTREAM) ; append (_attribute) ; }

#### Detailed Description Paragraph Table (107):

public string getFarameter(String _searchargument) throws IllegalArgumentException { String parameter = (string) table.get( searchargument); if (parameter == null) { displayErrorMessage (_searchargument); throw new IllegalArgumentException( "Not found in registry: " + _searchargument); } return parameter; } public String " getParameterAsString (String _searchargument) throws IllegalArgumentException { return getParameter( searchargument); } public int getParameterAsInt (String _searchargument) throws IllegalArgumentException { String parameter = (String) table.qet( searchargument); if (parameter == null) { displayErrorMessage (_searchargument) throw new IllegalArgumentException( "Not found in registry: " + searchargument); } int parsedparameter = 0; try { parsedparameter = IllegalArgumentException( "Registry arg format error, not an int-" + parameter + " s-" + _searchargument); } return parsedparameter; } public double getParameterAsDouble (String _searchargument) throws IllegalArgumentException { String parameter = (String) table.get(_searchargument); if (parameter == null) { displayErrorMessage ( searchargument); throw new IllegalArgumentException( "Not found in registry: " + _searchargument); } double parsedparameter = 0.0; try { parsedparameter = Double.valueOf(parameter).doubleValue(); } catch (NumberFormatException nfe) { String message = "Registry arg format error, not a double-" + parameter + ", s-" + searchargument; throw new IllegalArgumentException (message); } return parsedparameter; } public boolean getParameterAsBoolean(String searchargument) throws IllegalArgumentException { String parameter = (string) table.get( searchargument); if (parameter == null) { displayErrorMessage ( searchargument); throw new IllegalArgumentException( "Not found in registry: " + searchargument); } if (parameter.compareTo(TRUE) == 0) { return true; } return false; } private void displayErrorMessage (String searchargument) { // build message String message = this.getClass().getName() + "-E-NotInRegistry, paramater with internal representation-" + _searchargument + "not found in Registry"; // log message using sysman ref if available if (sysman_ != null) { sysman_.logMessage (message); } else { System.out.println(message); } } }

#### Detailed Description Paragraph Table (111):

Target in Skeleton Function and Operation by Template file OSFGenerate ##Package## -> package target (0) ##TableObjectName## -> normalised table name (1) ##TABLENAME## -> insert table name in UPPER CASE (2) ##COLUMNNAMES## -> insert all column names in UPPER CASE (3) ##KEYFIELDSAND- -> array of ints defining which cols are SORTORDER keys (4) ##tableobjectname## -> all lower case normalised table name

(5) ##ObjectName## -> upper and lower case normalised or specified object name (6) ##objectname## -> lower case normalised or specified object name (7) ##BaseTableObjects## -> enumerate all base table objects (8) ##inheritanceblock## -> recursively invoke parseSkeletonRecord() until ##endinheritanceblock## is encountered in the input template stream (9) ##index## -> insert an index counter, scoped within a given ##codeblock## (10) ##AttributeName## -> attribute name as a java-style class- - first byte upper case (11) ##attributeName## -> attribute name as a java-style method-- first byte lower case (12) ##ATTRIBUTENAME## -> UPPER CASE attribute name (13) ##attributeblock## -> recursively invoke parseSkeletonRecord() until ##endattributeblock## is encountered in the input template stream (14) ##attributeonlyblock## -> same as an ##attributeblock## but with no key fields (15) ##allkeyattributeblock# -> same as an ##attributeblock## but # with only key fields (16) ##keyFields## -> insert key fields as java-style method-- first byte lower case (17) ##MAXKEYCOUNT## -> insert nonnegative numeric integer constant of all object keys (18) ##ATTRIBUTECOUNT## -> insert nnic of count of attributes of object, including keys (19) ##parentKeyFields## -> insert key fields of top-level table object ONLY-- first byte lower case (20) ##attributesNoKeys## -> insert attribute names only, no primary or secondary keyfields (21) ##attributeNamesKeysQua -> all attributes, but at the end of a lfied## key field append keysuffix_ (22) ##keymap## -> insert metadata about key fields of underlying base tables (23) ##OBJECTNAME## -> UPPERCASE normalised or specified object name (24) ##counter+init## -> special tag to initialise a special internal counter. No output. (25) ##counter## -> insert the current value of the above counter, then increment (26) ##registryentrycount## -> insert the count of registry entries written (27) ##allcolumnblock## -> recursively invoke parseSkeletonRecord() until ##endcolumnblock## is encountered in the input template stream (28) ##COLUMNNAME## -> recursively insert a singular column name in UPPER CASE (29) ##TABLE## -> recursively insert a singular table name in UPPER CASE (30) ##entrycount++## -> increment registry entry count -- no output (31) ##allattributeblock## -> recursively invoke parseSkeletonRecord() until ##endcolumnblock## is encountered in the input template stream (32) ##DEFAULTMIN## -> based on datatype and attribute length, insert a reasonable default minimum value (33) ##DEFAULTMAX## -> based on datatype and attribute length, insert a reasonable default minimum value (34) ##VALIDATIONTYPE## -> based on datatype insert the validation type as defined in the OSFRulesObject base class (35) ##fieldlength## -> insert the maximum field length (36) ##picklistcandidates## -> insert picklist candidates from table scan or default string (37) ##iso639language## -> insert the current two byte iso639 language string (38) ##LANGUAGE## -> insert the current language descriptor (39) ##AttributeNameExpanded -> add a space before the 2nd through n capitals in an attribute name and then insert (40) ##language## -> insert the current language descriptor, in lower case (41) ##picklistvalues## -> insert all picklist values (multiple lines) or if no picklist exists for this column, suppress output of the record (42) ##picklistvalue## -> insert a unique picklist value guraranteed to be unique (43) ##picklistvalues## -> insert all unique picklist values (multiple lines) or if no picklist exists for this column, suppress output of the record (44) ##databaseblock## -> recursively invoke parseSkeletonRecord() until ##enddatabaseblock## is encountered in the input template stream, setting currentdatabase on each interation for each instance on the OSFDatabase list (45) ##DBLOGICALNAME## -> insert in upper case the intenral logical name of the currentdatabase (46) ##DBOWNER## -> insert in upper case the ownername of the currentdatabase_ and continue with further replacements (47) ##DBPASSWORD## -> insert in the case entered the password of the owner in the currentdatabase object and continue on with further replacements (48) ##DBTYPENAME## -> insert in upper case the jdbtools type name of the currentdatabase_, carry on with further replacements (49) ##DBSERVER## -> insert in the case entered the hostname or IP address in the currentdatabase_, carry on with further replacements (50) ##DBPORT## -> insert IP connect port in the currentdatabase_ object, carry on with further replacements (51) ##DBINSTANCE## -> insert in the case entered the instance name or SID in the currentdatabase_ object, carry on with further replacements (52) ##DBOWNER## -> insert in the case entered by the user the owner / user name in the

currentdatabase_ object, carry on with further replacements (53) ##MINKEYCOUNT## -> insert count of keys for a partially qualified read = key count of top level parent (54) ##hasparentconstraint## -> table is part of a relation / has a parent or owning table (55) ##testvalues## -> based upon current object context, insert a list of test attribute values (56) */ ##attributename## -> attribute name as an automatic declaration (57) ##attributenamekeysqual -> all attributes, lower case, at the ified## end of a key field append a lower case keysuffix_ (58) ##javadatatype## -> insert an appropriate Java data type depending on the normalised internal datatype (59) ##initializer## -> insert an appropriate initialiser depending on the normalised internal datatype (60) ##JavaPrimitiveObject## -> insert an name suitable for use in conversion methods (61) ##INTERNALDATA- -> insert the internal datatypes based TYPES## on the current table (62)

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#### Drawing Description Text (10):

FIG. 9 is a screen shot of a Database Connect Panel--DB Login.

#### Detailed Description Text (94):

A comprehensive exception handling scheme handles all server-side exceptions, standardizes and normalizes them then transmits the exceptions via CORBA. When received at the client end or requesting server-side middleware, PersistentobjectEvent.COMPONENTEXCEFTION events are fired to all registered listeners in the PRO-OBJECT with all indicative data about the exception in a format presentable to the end-user.

#### Detailed Description Text (118):

Shared Activation Mode: Shared activation mode can be used when registering a CORBA object server implementation since shared activation mode saves memory and nominalizes ORB overhead. Since all object servers, regardless of architecture, start a thread each time a database has to be accessed, one user will not affect another in the server in shared activation mode. Per-client activation mode can also be used if lots of server resources are available and the absolute best performance is desired for the client workstations/end users. We recommend this option and it is the default used in the script that registers CORBA object servers with the ORB.

#### Detailed Description Text (135):

Then only the attributes that are to be changed in the persistent relational object are added to the OSFORBStream. In addition to the attribute ID and the new attribute value, the old attribute value is added to the OSFORBStream as well. Given that PRO-OBJECTS can take the form of JavaBean components, it makes sense to handle the persistent relational update in the same manner as the update of a JavaBean bound property (in fact, that'is precisely what occurs: the attribute property is changed and then the remote RDB is synchronized, with the old, previous value of the attribute being sent to the server in the OSFORBStream). The OSFORBStream is then transmitted to the server implementation. A remote server exception will restore any changes made to bound properties and fire a PersistentObjectEvent.COMPONENTEXCEPTION to all registered event listeners.

#### Detailed Description Text (138):

These steps are taken if the attribute value as believed current by the client is not matched to the column value in the database: A rollback( ) is issued against the current Connection object in the server implementation to roll out any partially completed updates and to free all locks an OSFDBValueUpdateCompareException is thrown over CORBA to the client PRO-OBJECT a COMPONENTEXCEPTION PersistentObjectEvent is thrown in the PRO-OBJECT to all interested and registered event listeners the end user notified that he or she was dealing with stale data

#### Detailed Description Text (234):

The solution is simple. Create another WWW server, install the servlet .class files, register the servlets and configure the servlet.properties and other properties needed by the web server and test.

#### Detailed Description Text (253):

Many applications built today require a user to terminate and restart the application when a network, hardware or software failure occurs. Also users may have to logoff and login/reauthenticate when a network, hardware or software problem occurs. We consider both of these methods of human, end-user recovery to be not at all acceptable.

#### Detailed Description Text (254):

Each ObjectServerFactory architecture solution offers transparent recovery in the event of network, hardware or server software component failure. In addition, server load can be easily balanced between servers within a given login session. How this capability is enabled through solid design is and intelligent design patterns are outlined in the following sections.

#### Detailed Description Text (306):

In addition to client-end and server-side persistent, relational object classes, OSF generates: OMG Interface Definition Language which exposes remote server methods to PRO-OBJECT based clients Build scripts for all generated code, including invocation of the IDL compiler and compiling IDL output A server registration script to register the CORBA server implementations with the Object Request Broker Master sedlanguage translation scripts to propagate translations to the various java.util.ListResourceBundle-derived objects HTML template files for data entry, inquiry and tabular display A Registry java file containing all runtime parameters for a given installation, along with accessor classes and the object map Test programs for standalone testing of PRO-OBJECT component Other assorted utility and convenience scripts including a buildall script which builds everything in the proper sequence, interleaving builds into separate processes when possible

#### Detailed Description Text (402):

The Database Connect window contains three property pages used to enter the parameters needed to connect to the various relational databases: DB Login, Advanced Connect and Drivers/URL.

#### Detailed Description Text (403):

(39)DB Login Panel

#### Detailed Description Text (705):

This section is reserved for important classes not built by OSF but used to support the various runtime environments. Examples of these classes are: The Registry class contains all of the parameters which are unique to a given customer application. Database connect parameters and driver information, default database server IP addresses, initial object-> base table and column mapping parameters and basic rules edit parameters are contained in the Registry class. Also, a few parameters that were initially manifest constants were moved out of the code into the Registry so the values could be changed without recompiling the application modules. The OSFControlServlet class is the servlet that invokes the OSFSecurity object to validate logins, perform runtime authorization and to switch the browser context from servlet to servlet. OSFPickListBuildThread is the class that scans each database table to construct default edit rules and to build lists of possible pick list candidates.

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#### Detailed Description Text (25):

OSF Support Classes are then discussed. Examples of these support classes include pick list generation, distributed edit/business rules, and real-time performance measurement and analysis. The Registry class is central to runtime system configuration and it is described in this section.

#### Detailed Description Text (255):

(23) Ultrathin Client Architecture Rule #1 in the distributed component business is to "Never let the users fall asleep in front of their workstations".

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